

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Soledad Penades, et al.
Serial No. : 10/559,957
Filing Date : December 8, 2005
Examiner : Not yet assigned
Group Art Unit : Not yet assigned
Entitled : "Magnetic Nanoparticles Linked
to a Ligand"

Suite 2400
1601 Market Street
Philadelphia, PA 19103
(215) 563-4100 (telephone)
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Our File No. 0380-P03930US0

Mail Stop: AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.97

Dear Sir:

In compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, Applicants are submitting herewith one sheet of Form PTO/SB/08a and four sheets of Form PTO/SB/08B listing references which the Examiner is respectfully requested to consider and make of record in this application. This Information Disclosure Statement is being filed more than three months after the filing date, but before receipt of the first Official Action on the merits. Thus, it is believed by the undersigned attorney that no fee is required under 37 C.F.R. §1.97(b).

Several references listed in this Information Disclosure Statement are from the International Search Report in the international application (PCT/GB/04/002480) on which this U.S. national stage patent application is based. Further, several references listed in the Information Disclosure Statement were cited in the Great Britain search report.

This submission is not an admission that the references listed on the attached Forms PTO/SB/08a and PTO/SB/08b constitute prior art against the claims of this application.

The above-identified international application entered the U.S. national phase after June 30, 2003. Therefore, copies of the U.S. patents and/or published U.S. applications listed on Forms PTO/SB/08a and PTO/SB/08b are not included (see O.G. Notice, August 5, 2003).

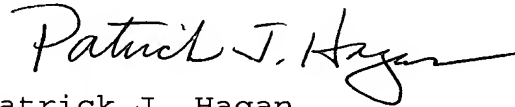
The Examiner is respectfully requested to confirm receipt and consideration of the cited references by initialing and returning a copy of the attached Forms PTO/SB/08a and PTO/SB/08b in accordance with MPEP §609.

In the event that any fee is required in connection with this submission and not enclosed, the Commissioner is authorized to charge such fee to the account of the undersigned attorneys, Account No. 04-1406. A duplicate copy of this paper is enclosed.

Early and favorable consideration of this application is respectfully requested.

Respectfully submitted,
DANN, DORFMAN, HERRELL AND SKILLMAN
A Professional Corporation
Agent for Applicants

By:



Patrick J. Hagan
Registration No. 27,643

PJH:LCF

Enclosures - Forms PTO/SB/08a and PTO/SB/08b
- Copy of references

Substitute for form 1449/PTO

(Use as many sheets as necessary)

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| Attorney Docket Number | 0380-P03930US0 |

Sheet 1 of 5

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| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|---|------------------|---|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ *Number ⁴ *Kind Code ⁵ (if known) | MM-DD-YYYY | | | |
| | B1 | WO 02/093140 | 11-21-2002 | Johns Hopkins Univ. | | |
| | B2 | WO 02/032404 | 04-25-2002 | Consejo Superior ... | | |
| | B3 | WO 99/61911 | 12-02-1999 | Univ. of North Carolina | | |
| | B4 | WO 03/086660 | 10-23-2003 | Government of the U.S. | | |
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| Examiner Signature | | Date Considered | |
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

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| Examiner Name | Not yet assigned |
| Attorney Docket Number | 0380-P03930US0 |

Sheet 2

of

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NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|-----------------------|---|----------------|
| | C1 | FLEMING, D.A., et al., "Chemically Functional Alkanethiol Derivatized Magnetic Nanoparticles," Mat. Res. Soc. Symp. Proc., 746:207-212, (2003). | |
| | C2 | TERANISHI, T., et al., "Fabrication of gold nanoparticle superlattices and their optical and electronic properties," Gold, pages 978-982, (2003). (5 pages) | |
| | C3 | SRIKANTH, H., et al., "Dynamic transverse susceptibility in Au-Fe-Au nanoparticles," Materials Science and Engineering, A304-306, 901-904, (2001). | |
| | C4 | PARK, S-J., et al., "Synthesis and Magnetic Studies of Uniform Iron Nanorods and Nanospheres," J. Am. Chem. Soc., 122:8581-8582, (2000). | |
| | C5 | NIEMEYER, C.M., "Nanoparticles, proteins, and nucleic acids: biotechnology meets materials science," Angew. Chem. Int. Ed., 40:4128-4158, (2001). | |
| | C6 | BERGEMANN, C., et al., "Magnetic ion-exchange nano- and microparticles for medical, biochemical and...", Journal of Magnetism and Magnetic Materials, 194:45-52, (1999). | |
| | C7 | WHITESIDES, G.M., et al., "Magnetic separations in biotechnology," Trends in Biotechnology, 1:144-148, (1983). | |
| | C8 | SUN, S., et al., "Monodisperse FePt Nanoparticles and Ferromagnetic FePt Nanocrystal Superlattices," Science, 287:1989-1992, (2000). | |
| | C9 | SHAFI, K.V.P.M., et al., "Surfactant-assisted self-organization of cobalt nanoparticles in a magnetic fluid," Advanced Materials, 10:590-593, (1998). (4 pages) | |
| | C10 | FRIED, T., et al., "Ordered two-dimensional arrays of ferrite nanoparticles," Advanced Materials, 13:1158-1161, (2001). (4 pages) | |

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| | C11 | MOUMEN, N., et al., "Controlled preparation of nanosize cobalt ferrite magnetic particles," Journal of Magnetism and Magnetic Materials, 149:67-71, (1995). | |
| | C12 | SUSLICK, K.S., et al., "Sonochemical Synthesis of Iron Colloids," J. Am. Chem. Soc., 118:11960-11961, (1996). | |
| | C13 | SUN, S., et al., "Size-controlled synthesis of magnetite nanoparticles," J. Am. Chem. Soc., 124:8204-8205, (2002). | |
| | C14 | GUO, Q., et al., "Patterned Langmuir-Blodgett films of monodisperse nanoparticles of iron oxide using soft lithography," J. Am. Chem. Soc., 125:630-631, (2003). | |
| | C15 | SUN, S., et al., "Polymer mediated self-assembly of magnetic nanoparticles," J. Am. Chem. Soc., 124:2884-2885, (2002). | |
| | C16 | JOSEPHSON, L., et al., "High-efficiency intracellular magnetic labeling with novel superparamagnetic-tat peptide conjugates," Bioconjugate Chem., 10:186-191, (1999). | |
| | C17 | LEWIN, M., et al., "Tat peptide-derivatized magnetic nanoparticles allow in vivo tracking and recovery of progenitor cells," Nature Biotechnology, 18:410-414, (2000). | |
| | C18 | JOSEPHSON, L., et al., "Magnetic nanosensors for the detection of oligonucleotide sequences," Angew. Chem. Int. Ed., 40:3204-3206, (2001). | |
| | C19 | de la FUENTE, J., et al., "Gold glyconanoparticles as water-soluble polyvalent models to study carbohydrate interactions," Angew. Chem. Int. Ed., 40:2257-2261, (2001). | |
| | C20 | BARRIENTOS, A.G., et al., "Gold glyconanoparticles: synthetic polyvalent ligands mimicking glycocalyx-like surfaces as tools for...", Chem. Eur. J., 9:1909-1921, (2003). | |

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|--------------------|-----------------------|---|----------------|
| | C21 | ZHOU, W.L., et al., "Nanostructures of gold coated iron core-shell nanoparticles and the nanobands assembled under magnetic field," Eur. Phys. J. D, 16:289-292, (2001). | |
| | C22 | MYKHAYLYK, O., et al., "Glial brain tumor targeting of magnetite nanoparticles in rats," J. Magnetism and Magnetic Materials, 225:241-247, (2001). | |
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| | C24 | JOSEPHSON, L., et al., "Near-infrared fluorescent nanoparticles as combined MR/optical imaging probes," Bioconjugate Chem., 13:554-560, (2002). | |
| | C25 | TATON, T.A., et al., "Scanometric DNA array detection with nanoparticle probes," Science, 289:1757-1760, (2000). | |
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| | C27 | DI FELICE, R., et al., "DFT study of cysteine adsorption on Au(111)," J. Phys. Chem. B, 107:1151-1156, (2003). | |
| | C28 | DAVIDOVIC, D., et al., "Spectroscopy, Interactions, and Level Splittings in Au Nanoparticles," Physical Review Letters, 83:1644-1647, (1999). | |
| | C29 | VITOS, L., et al., "Size-dependent paramagnetic-ferromagnetic phase transition in palladium clusters," Physical Review B, 62:R11957-R11960, (2000). | |
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